

## **Team 7 – Project Proposal**

### **Team Members**

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### **Project Topic - Bluebikes Management System**

#### **Problem statement**

Bluebikes ride sharing is one of the highlights of the bicycle transportation in Boston. It is an essential mode of commute for students. Bluebikes are easily available and affordable promoting self-distancing during pandemic.

The model that we propose ensures a smooth transaction and provides the rider with an efficient and smooth ride around the city.

Through our model, we wish to solve problems related to

1. Bluebike renting system has challenges due to payment issues and slow loading of the application. Common issues faced by the users are – not being able to rent or return bikes, etc.
2. Fare calculation for the bikes according to time duration and distance covered and membership mode of user
3. Accepting Discount coupons and generating Reward coupons for loyal users
4. Providing membership options: Weekly pass vs Monthly pass vs one time usage for existing as well as new users
5. Ensure user data privacy and storage of past user reservations, bike inventory and creating data accessibility by roles and requirements.
6. Scalability of the application for availability in different regions of the city, state etc. That is if the service starts in a different location how would you manage loading the location by state, city, area, etc.

#### **Objectives**

1. Providing a smooth bike renting service to the all riders at best prices
2. Boosting the application with better DB design for a better User experience, ensuring higher user retention.